



JINDAL SAW LTD.
TOTAL PIPE SOLUTIONS

Helical Piles For Solar Application



- Helical piles are installed by rotating or "torquing" the pile into the soil.
- Capacity is a direct correlation of the torque required to install the pile
- Capacity is derived from both the end bearing on the helix plate(s) and skin friction on the shaft.
 - Area of the helix
 - Strength parameters of the soil
 - Depth of water table
 - Depth of Installation
- Helical piles/anchors are installed daily in commercial, renewable structures and residential development/repair in a variety of different applications.





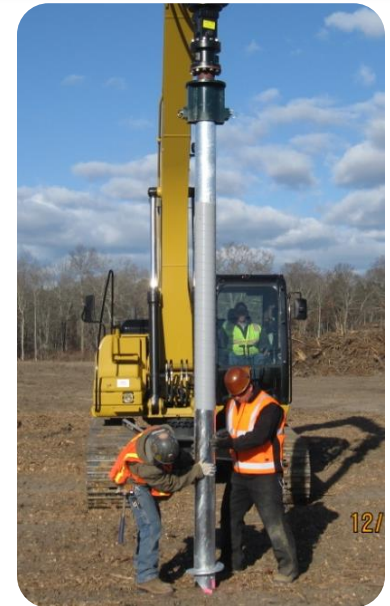
3. Environmental Benefits:

- No excavation
- Eco system simplified permitting
- Removable, reuse or recycle
- Quiet installation
- Soil compaction without changing mean elevation



4. Fast, simple, low cost installation

- Standard excavation equipment
- Inexpensive Tooling
- High Production rates
100+ piles/day/crew
- Load the piles immediately
- Minimal training needed
(a specialty contractor is not required)



Brookhaven National Labs, NY - 31.5 MW

6,000 piles, 6" diameter, 18 feet (5.5m) long, termination 2 installation holes



1:08pm



1:37pm



1:58pm



2:17pm



2:52pm

Total Time – 1hr 44min for first rack

On-site for initial installation



Support throughout construction



Boeing Beta Site

- 442 Piles – 6" OD
- 8' feet (2.4m) length
- Five days to install piles/1 crew
- Termination, welded to panel rack



Amhurstberg Solar Farm – 20MW

- 17,000 Piles – OD 4" & 5"
- 57,906 panels mounted on 6,434 racks
- Length 10ft (3m)
- Termination via bolting to panel structures



Alamosa Solar Farm – 20MW

- 16,800 piles – OD 5"
- Length 10 ft (3m)
- 280 piles install per day
- Bolt termination to racks



Alamosa Solar Farm – 20MW



Pinewood-Ontario

- 50 MW
- 14,000 Install Piles
- OD 5" with one 18" helix
- Length 20 ft (6m)

